



# UNITED STATES PATENT AND TRADEMARK OFFICE

36

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
10/693,382	10/23/2003	John K. Solheim	KMC-604	1641

7590

10/04/2004

Darrell F. Marquette  
2201 W. Desert Cove  
Phoenix, AZ 85029

EXAMINER
----------

HUNTER, ALVIN A

ART UNIT	PAPER NUMBER
----------	--------------

3711

DATE MAILED: 10/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

05

# Office Action Summary

Application No.

10/693,382

Applicant(s)

SOLHEIM ET AL.

Examiner

Alvin A. Hunter

Art Unit

3711

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 23 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 October 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 10/23/2003.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Drawings***

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the adhesive layer extending into the aperture as claimed in claim 3 and 13 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 102***

Art Unit: 3711

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 9, 11, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Fisher (USPN 5921871).

Regarding claim 1, Fisher discloses a golf club head comprising a club head body 21 composed of a first material wherein the club head body having a rear surface, a heel end, a toe end, and a front face 22 with a first cavity 44 formed thereon, the first cavity being defined by a bottom wall and a side wall 36 and 37, the club head body further comprising a first aperture 53 passing from the first cavity through the bottom wall thereof to the rear surface of the club head body, and a face insert 38 composed of a second material disposed within the first cavity wherein the face insert comprising a body with a front surface, a back surface and a lateral surface (See Figure 2).

Regarding claim 2, Fisher discloses an adhesive layer 47 disposed in the first cavity between the bottom wall and the face insert (See Figure 2).

Regarding claim 4, Fisher discloses the club had body further comprising a second aperture passing from the first cavity through the bottom wall to the rear surface of the club head body (See Figure 2).

Regarding claim 9, Fisher discloses the face insert composed of a polymer (See Column 7, lines 36 through 64).

Art Unit: 3711

Regarding claim 11, Fisher inherently discloses a method of manufacturing a golf club comprising providing a club head body composed of a first material, the club head body having a rear surface and a front face with a cavity formed therein, the cavity being defined by a bottom wall and a side wall, the club head body further comprising an aperture passing from the cavity through the bottom wall thereof to the rear surface; providing a face insert composed of a second material, the face insert comprising a body having a front surface, a back surface and a lateral surface; applying an adhesive layer between the bottom wall of the cavity and the back surface of the face insert; and pressing the face insert into the cavity so that any air trapped between the face insert and the bottom wall of the cavity escapes through the aperture.

Regarding claim 12, Fisher inherently discloses pressing the face insert farther into the cavity until the adhesive layer comes into contact with and bonds to the back surface of the face insert and the bottom wall of the cavity.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 5, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (USPN 5921871).

Art Unit: 3711

Regarding claim 3 and 13, applicant does not state why it is critical for a portion of the adhesive layer to extruded through the aperture in order to attain the invention. Therefore, one having ordinary skill in the art would have found an obvious matter of design choice. The adhesive layer of Fisher would perform equally as well because it facilitates attachment of the face insert to the golf club head.

Regarding claim 5, Fisher does not disclose the apertures forming a letter of the English alphabet. Applicant admits that the only purpose for the shape of the aperture forming an English alphabet is nothing more than aesthetic and does not contribute anything additional to the invention. One having ordinary skill in the art would have found it an obvious matter of design choice. The apertures of Fisher would perform equally as well because it facilitates attachment of the face insert to the golf club head.

Regarding claim 14, Applicant does not state why it is critical for only injection to be used in order form the adhesive layer. Therefore, one having ordinary skill in the art would have found it obvious matter of design choice. The method of applying the adhesive layer taught by Fisher would perform equally as well because it facilitates the attachment of the face insert.

Claims 6, 7, 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (USPN 5921871) in view of Grace et al. (USPN 5924939).

Regarding claims 6, 7, and 15, Fisher does not disclose a cavity insert inserted into the face insert. Grace et al. discloses a golf club head having a face insert 7 wherein a cavity insert 6 is inserted into the face insert (See Figure 4 and Summary of the invention). One having ordinary skill in the art would have found it obvious to place

Art Unit: 3711

a cavity insert within a face insert, as taught by Grace et al., in order to provide a soft feel to the golf club as well as aesthetics.

Regarding claim 16, Fisher discloses a golf club head comprising a club head body 21 composed of a first material wherein the club head body having a rear surface, a heel end, a toe end, and a front face 22 with a first cavity 44 formed thereon, the first cavity being defined by a bottom wall and a side wall 36 and 37, the club head body further comprising a first aperture 53 passing from the first cavity through the bottom wall thereof to the rear surface of the club head body, and a face insert 38 composed of a second material disposed within the first cavity wherein the face insert comprising a body with a front surface, a back surface and a lateral surface (See Figure 2). Fisher discloses the insert being visible through the aperture before inserting the screws but does not disclose a cavity insert inserted into the face insert. Grace et al. discloses a golf club head having a face insert 7 wherein a cavity insert 6 is inserted into the face insert (See Figure 4 and Summary of the invention). One having ordinary skill in the art would have found it obvious to place a cavity insert within a face insert, as taught by Grace et al., in order to provide a soft feel to the golf club as well as aesthetics.

Claims 8 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (USPN 5921871) in view of Grace et al. (USPN 5924939) further in view of Camerson et al. (USPN 6231458).

Regarding claim 8, Fisher in view of Grace et al. does not disclose the insert made of an elastomeric silicone compound. Cameron et al. discloses a golf club head having two insert wherein one of the inserts comprise an elastomeric silicone compound

Art Unit: 3711

(See Column 3, lines 54 through 64). One having ordinary skill in the art would have found it obvious to have the cavity insert made of an elastomeric silicone compound, as taught by Cameron et al., in order to dampen the vibration of the club head during impact.

Regarding claim 17, Fisher discloses the first material being metal and the second material being a polymer but Fisher in view of Grace et al. does not disclose the third material being an elastomeric silicone compound. Cameron et al. discloses a golf club head having two insert wherein one of the inserts comprise an elastomeric silicone compound (See Column 3, lines 54 through 64). One having ordinary skill in the art would have found it obvious to have the cavity insert made of an elastomeric silicone compound, as taught by Cameron et al., in order to dampen the vibration of the club head during impact.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin A. Hunter whose telephone number is 703-306-5693. The examiner can normally be reached on Monday through Friday from 7:30AM to 4:00PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Vidovich, can be reached on 703-308-1513. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.




Art Unit: 3711

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AAH

Alvin A. Hunter, Jr.

  
GREGORY VIDOVICH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3700